

IDRS IP CAMERA (OR DVS) IE Client

User Manual

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1. Features

Camera

1/3" Sony Super HAD CCD
Horizontal resolution 540/480/420 TV Lines
Auto Day/Night Switch
Auto electronic shutter and auto gain control
IR LED: $\phi 5 \times 36$ PCS
IR distance: 30m

Video Compression

H.264 compression algorithm with high compression ratio & good image quality
Set-able video quality and bit rate
Support up to D1 (4CIF) resolution
Multi-zone motion detection function
Support Mask function to mask sensitive area
Video signal loss alarm function
Position configurable OSD&LOGO function
Support both variable bit rate and variable frame rate
Support SD card

Network function

Support TCP, UDP, RTP, DHCP, etc
Support ADSL (PPPoE) dialup function
Remote parameters setup
Remote playback, download the recorded files in DVR
Remote record function
Remote upgrade function
Remote control PTZ
Support Internet Explorer for network preview
Network voice talk

Related Software

IDRS- NVR Client software
IDRS- NVMS
IE Browser (Web function)
IDRS- PC Based DVRs Server Software

2. Products Shape



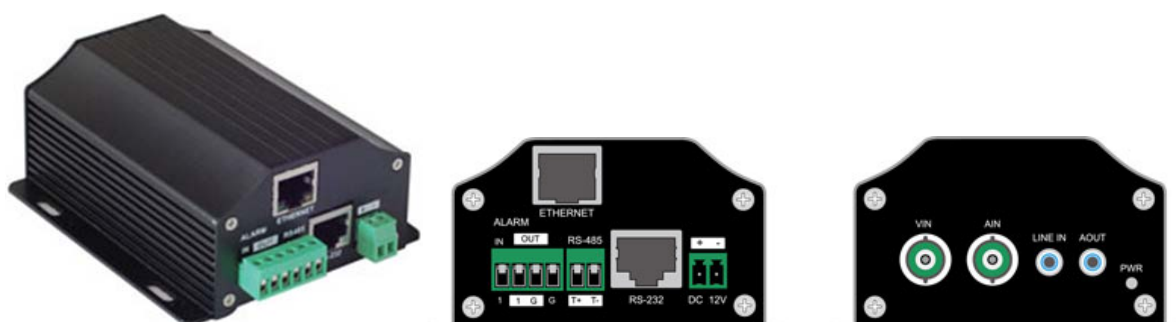
-----IDRS-IPCAM1-----

-----IDRS-IPCAM2-----



-----IDRS-IPCAM3-----

-----IDRS-IPDOME3-----



-----IDRS401D-----

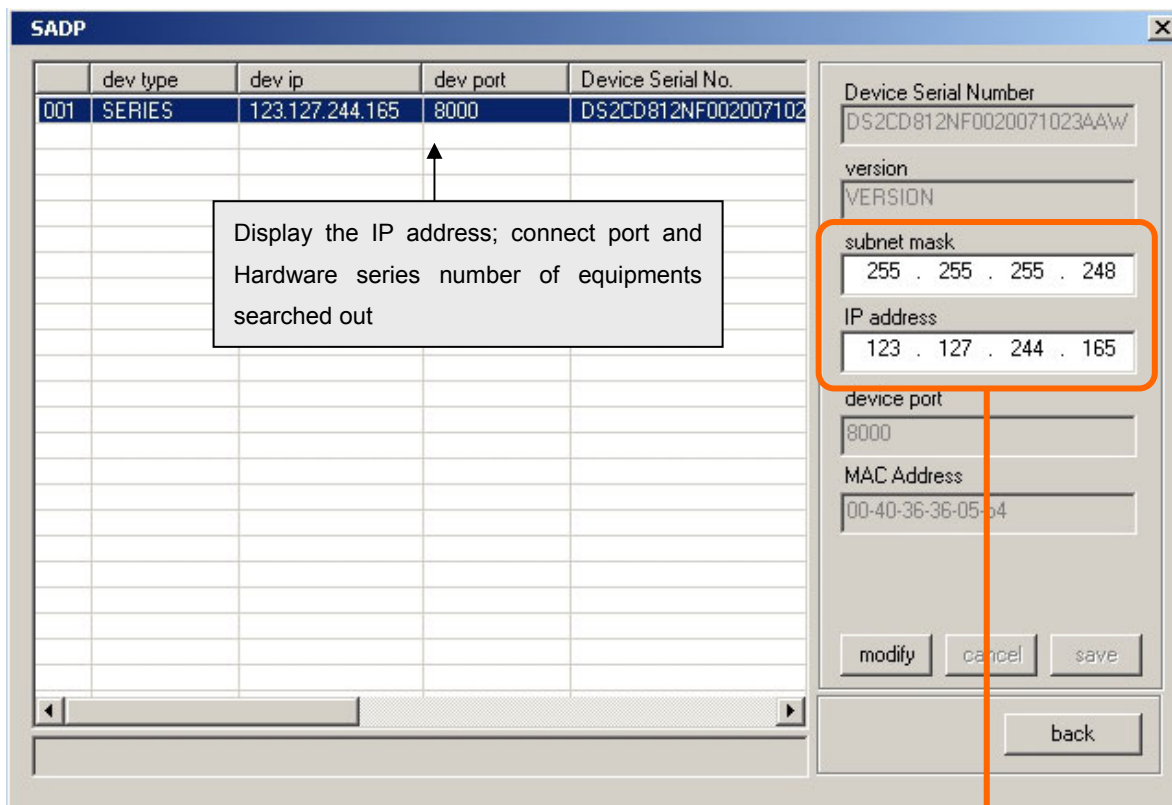


-----IDRS-401A/IDRS-402A/IDRS-404A-----

3. IP search & set

In the network camera software packages, there is a "search software SADP of IP Camera" folder, including SADP software. SADP software is used to identify and configure all the cameras' IP address and mask address in the LAN (must be in an open state). SADP software uses unique search activated equipment technology, when the user does not know or has forgotten network camera's IP address, can find it via SADP software. This software can be run in Windows2000/XP system, and needed the support from the operation of Wincap; users need to install software Wincap Package, The packages include "WinPcap_3_1_beta_3" software.

SADP is not needed to be installed, can be run directly, the software will automatically search IP cameras in the LAN after running, then displayed the cameras in the table form, as below: **Initiative IP address: 123.127.244.165**



Here you can change the current equipment's IP address and mask address, then input the one you want, after that, click **modify**.

Note:

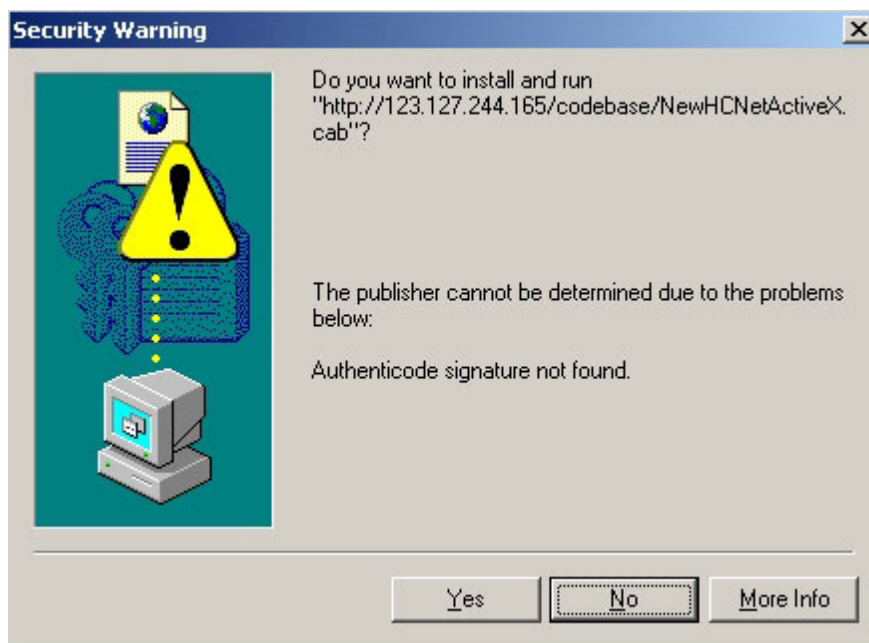
The new IP address will take effect after restarting this equipment.

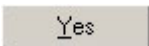
4. IP Camera(or DVS) to IE connection & operation

4.1 First time installation with Plug-in

When you want to connect to the network camera, only need to input the network camera's IP address in the IE Address bar, then click the "link" or the "Enter" button on the keyboard.

If it is your first time to access to the network cameras through the IE browser, the operating system will prompt you to install a plug-in, as the following picture: (Take Windows XP-as the example, basically similar to other operating systems.)



Click  to install this Active X. You need to wait different time according to different net speed. (Usually between 20-120 sec)

After installation, the page will automatically enter into the user interface to verify the users,

Inputs the corresponding connects port, the user name and password, and selects the suitable stream type (Master Stream, Sub Stream. See more information: 4.3.1), after all this, click OK, and then enter the main browser interface, as below:

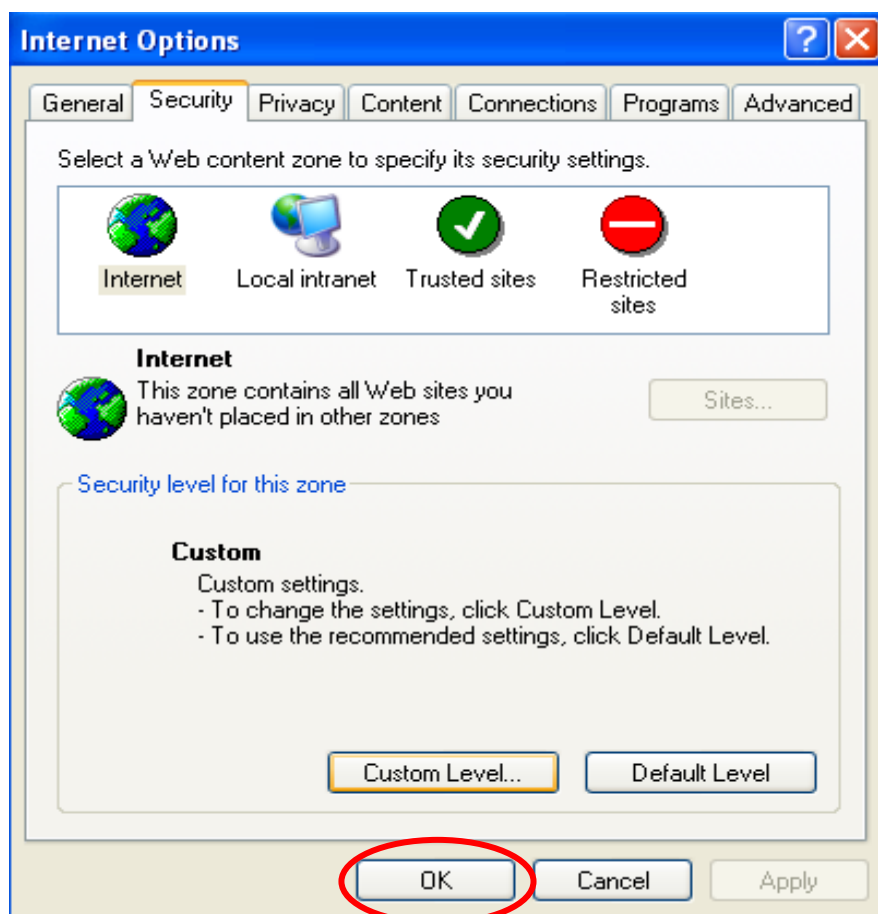
Default admin name: **Admin**
Default admin password: **12345**
Default connect port: **8000**

Note:

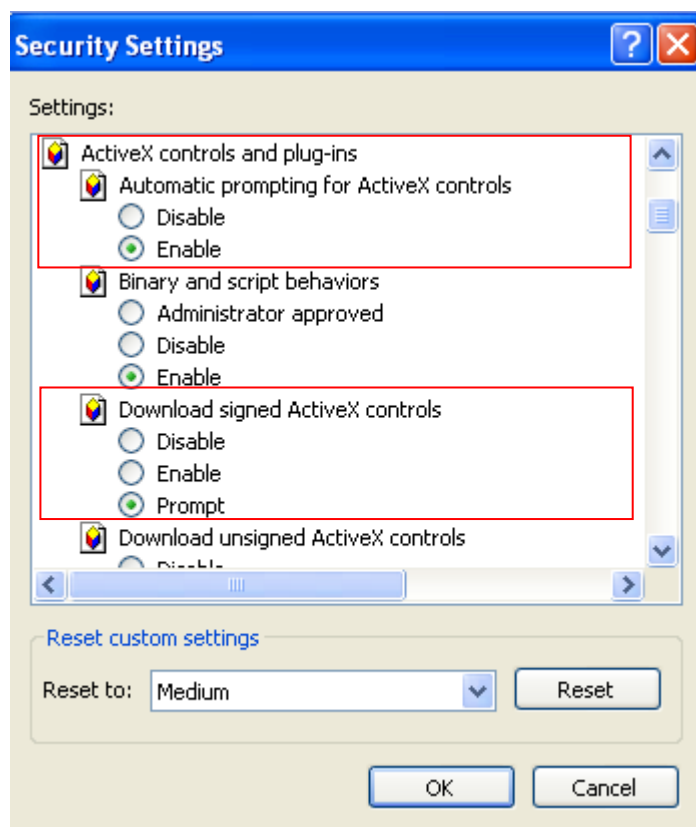
If no window displayed or no respond after clicking on the installation button, check whether there is third-party software (such as firewalls, YAHOO assistant, 3721, and other software) to restrict the installation, if there are restrictions from third-party software, please remove the restrictions, or temporarily close the third-party software or firewall.

In addition, please make the following adjustments in the "IE security settings" of "Internet Options":

- 1) Click the **[customer level]**, then click **[ok]**.As below:



- 2) Access to security settings of pages, use the settings circled in the bellowed picture. (This picture shows Windows XP-option, Windows2000 similar to this).



4.2 Main interface

The logon interface will be displayed automatically after installation of plug-in. Input related user name and passport, as below:

Notice:

Initiative User name: admin

Passport: 12345

The image shows a logon interface with a light blue background. It contains three text input fields. The first is labeled 'Username:' and is empty. The second is labeled 'Password:' and is empty. The third is labeled 'Port:' and contains the text '8000'. Below the input fields are two buttons: 'OK' and 'Cancel'.

4.2.1 Operation introduction



Connect/disconnect image



Snapshot



Manual record

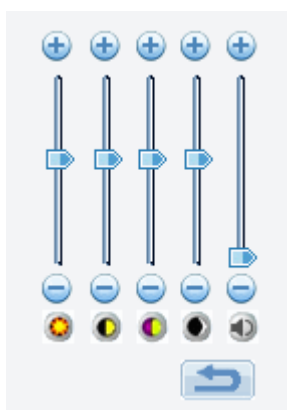


Talkback (available to talk to web servant positively)



PTZ control button: control pan / tilt/zoom/aperture, as well as position of presetting

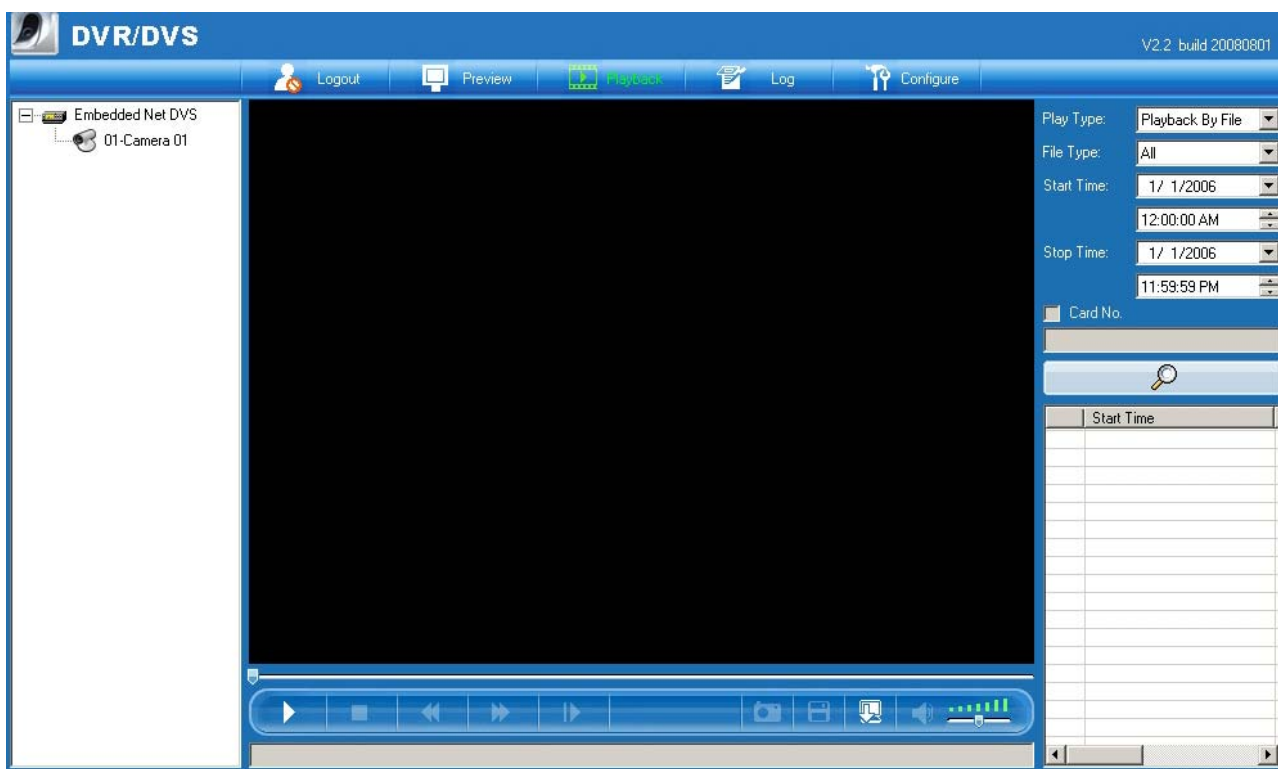
Notice: before control, preset control protocol/address code/bit rate etc.



Adjust saturation, grayscale, contrast, brightness. Real-timely adjust eavesdropping volume. Restore default by pressing lower-right corner. Mouse-hovering appears hint

4.2.2 Playback interface operation

Press  into search interface, like picture:



Play button provides play, stop, slow play, rapid play and frame play. Mouse-hovering appears hint



During remote playback, support snapshot, instant store, adjust playback volume. Press download button and wholly download video data selected.

Play Type: Playback By File

File Type: All

Start Time: 1/ 1/2006

Stop Time: 1/ 1/2006

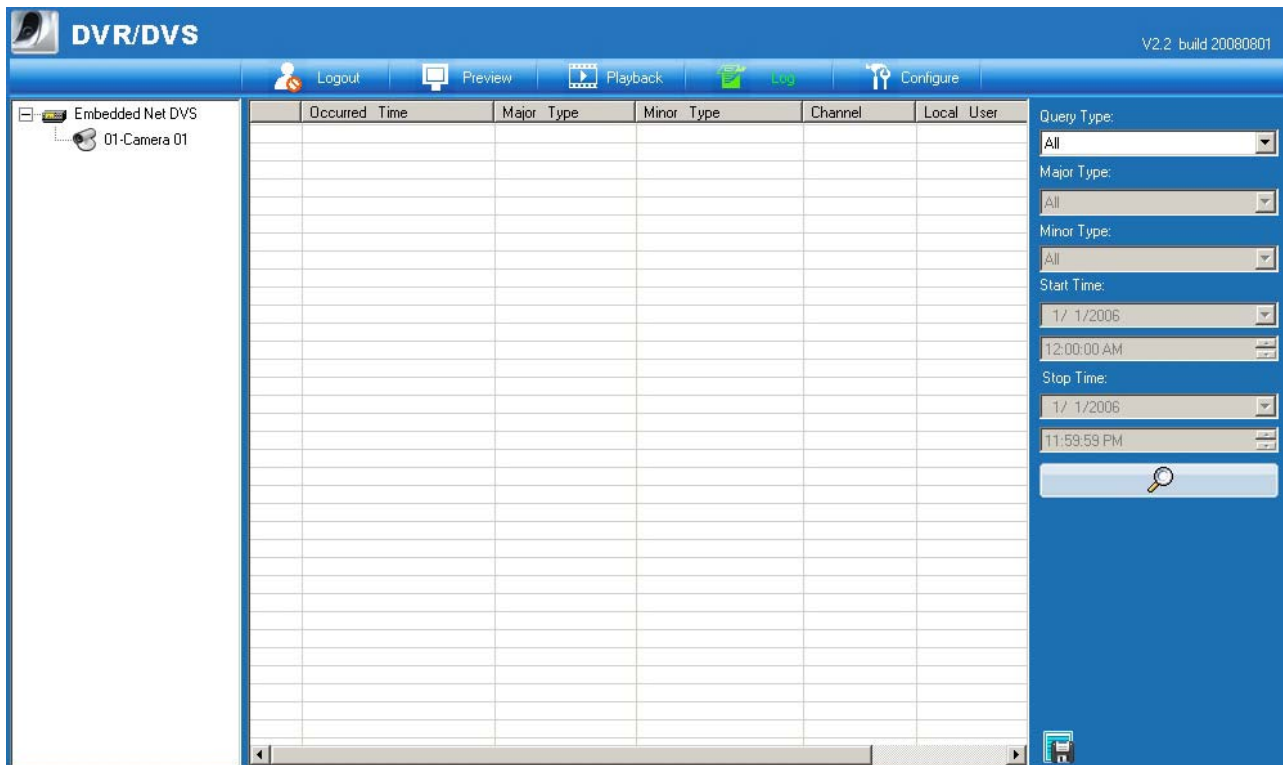
Card No.

Search criteria: time search or video type search

Start to search

Search result list displays all related video data, select and press "playback"

4.2.3 Log search interface operation



Select related search type on the right, press “search” button and display all logs needed. Press button on the lower right corner and move logs to local computer.



4.3 Remote setting operation

4.3.1 Configure parameters of server

Press “Server parameters” item (like below picture) involves Server Configuration Information, Network Configuration Information and Server Version Information.

The screenshot shows the 'Remote Configuration' window with three tabs: 'Server configuration', 'Channel configuration', and 'COM configuration'. The 'Server configuration' tab is active, displaying the following fields:

Server Configuration Information	
Device name	Embedded Net DVS
Device ID	88
No of Channels	1
Alarm input number	1
Device type	DVS
Serial number	DS6101HFI-IP0020081203AAWR100112942w/CU
Cycle record	YES
Enable scaler	Off
HDD number	0
Alarm output number	1

Network Configuration Information	
NIC type	10M/100M auto
IP address	192 . 0 . 0 . 64
Subnet mask	255 . 255 . 255 . 0
DNS host IP	0 . 0 . 0 . 0
Remote host IP	0 . 0 . 0 . 0
PPPoE	Off
PPPoE user	
NAS host IP	0 . 0 . 0 . 0
HTTP port	80
MAC address	00:40:36:37:54:fe
Port	8000
Gateway	0 . 0 . 0 . 0
Multicast IP	0 . 0 . 0 . 0
Remote host port	0
PPPoE IP	0 . 0 . 0 . 0
PPPoE password	
NAS directory	

Server Version Information	
Firmware version	V2.0 build 080812
Hardware version	0x0
Encode version	V4.0 build 080729
Front panel version	0

At the bottom of the window are four buttons: 'Restore', 'Reboot', 'Save', and 'Exit'.

Server Configuration Information:

Server name: max.32 characters or 16 Chinese characters.

Device number: 1.5 or more new version number is max. 255; 1.4 version number is max. 100.

Loop record: when HD space is full, press “yes” with continuing record and covering old file; press “no” with stopping record.

Channel quantity, HD quantity, alarm-in quantity, alarm-out quantity, server type and serial-number of server can not be revised.

IP address & port number & mask code: server’s fixed IP address, port number and mask code. Default code of port: 8000.

Gateway address: when client visits server with cross-gateway, gateway IP must be put in.

Manage host IP & port number: IP address and port number of PC host of receiving alarm signal.

HTTP port number: used when visiting server by web pattern.

Physical address of server: PPPoE address can not be revised.

Server version information: main-control version, HD version, encode version and front panel version can not be revised.

Setting finishes and press “save”. Some parameters require restart server for taking effect, press “restart” button.

4.3.2 Channel parameters configuration

In remote configuration column, select “channel parameters”, like below picture

Remote Configuration

Server configuration | **Channel configuration** | CDM configuration | Alarm configuration | User

Channel configuration

Select channel: Channel01

Channel name: Camera 01 (Note: Channel name can not be copied)

☒ Schedule Setup PreRec T. 5 seconds PostRec T. 5 seconds

☒ Motion Det. Area setup Schedule Linkage (Note: Area can not be copied)

☒ Display name X.Loc 512 Y.Loc 512

☒ Display OSD X.Loc 0 Y.Loc 32 ☒ Display week

Properties: Opaque&Steady Type: MM-DD-YYYY (MDY)

Type: Main stream Frame type: BBP I Frame: 100

Ima.Quality: High Frame rate: Full Frame Stream type: Video&Audio

Resolution: 4CIF Bitrate type: Variable Max bitrate: 2048Kbps

Copy to: All channels copy

Overlay text

	x	y	Overlay content
☐ Area 1	0	0	
☐ Area 2	0	0	
☐ Area 3	0	0	
☐ Area 4	0	0	

Restore Reboot Save Exit

Main stream: main encode mode for device; record parameter for DVR

Sub stream: mainly applied for network transmission, suitable in unfavorable network.

Event parameter: when event trigger happens (e.g. Motion detection alarm, mask alarm, signal quantity alarm), record parameter switches from timing record parameter to event compression parameter; when event is over, event compression parameter switches back to timing record parameter. Event parameter is optional.

Bit rate upper limit: select a parameter for limiting compression stream. 32K, 48K, 64K, 80K, 96K, 128K, 160K, 192K, 224K, 256K, 320K, 384K, 448K, 512K, 640K, 768K, 896K, 1M, 1.25M, 1.5M, 1.75M, 2M, customize

Video frame rate: full frame rate (PAL25f/s, NTSC30f/s), 20, 16, 12, 10, 8, 6, 4, 2, 1, 1/2, 1/4, 1/8, 1/16.
(Notice: 15, 18, 22 applies in dedicated servers)

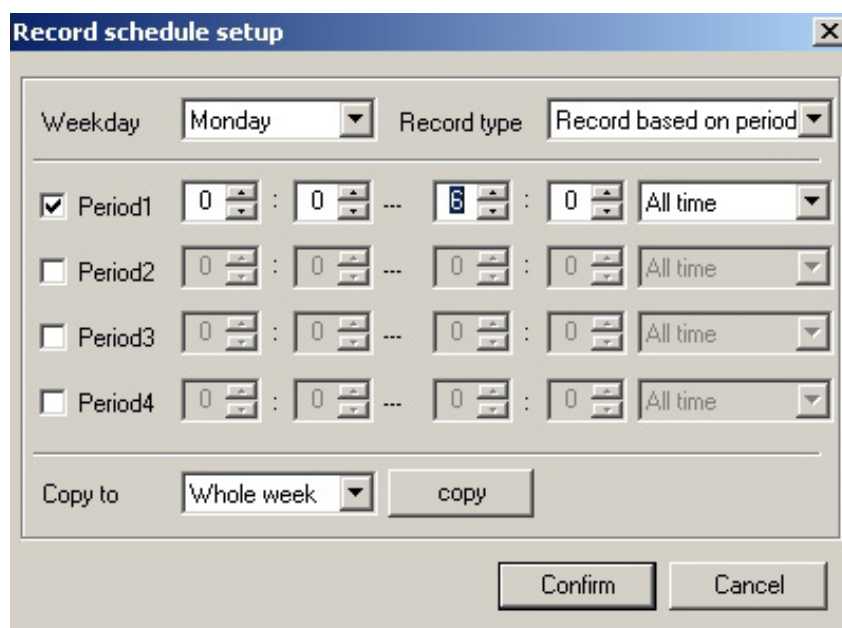
Image quality: 6 gears optional ()

Resolution: default is CIF, others options include QCIF, 2CIF, DCIF, 4CIF. Sub stream options include QCI and CIF.

Bit rate type: variable bit rate and fixed bit rate is optional

Set timing record:

Select "record plan", also can set record time, and prerecord time and record delay. Press "setup", enter timing record plan interface, as below picture



The image shows a "Record schedule setup" dialog box. It has a title bar with a close button. Inside, there are two dropdown menus: "Weekday" set to "Monday" and "Record type" set to "Record based on period". Below these are four rows for "Period1", "Period2", "Period3", and "Period4". Each row has a checkbox, a time selection area with spinners for hours, minutes, and seconds, and a "Record type" dropdown menu. "Period1" is checked, and its time is set to 0:0:0. The other periods are unchecked. At the bottom, there is a "Copy to" dropdown menu set to "Whole week" and a "copy" button. At the very bottom are "Confirm" and "Cancel" buttons.

Period	Record type	Time
☒ Period1	Record based on period	0 : 0 : 0
☐ Period2	Record based on period	0 : 0 : 0
☐ Period3	Record based on period	0 : 0 : 0
☐ Period4	Record based on period	0 : 0 : 0

Copy to: Whole week [copy]

[Confirm] [Cancel]

Select timing record mode, set relevant period. If select 24-hours record, only can set record type. Setting finishes, press "OK" for saving then exits configuration interface. When configuration is unnecessary

Note: If set up the record method mobile detection or alarm video, and we should set up the mobile detection and alarm deployment.

Pre-recorded time: the video took place before the alarm time, the options do not have to deal with, 5 seconds (default), 10 seconds, 15 seconds, 20 seconds, 25 seconds, 30 seconds, without restriction.

Delay Video: Video alarm occurs when the number of recorded time, there are options for 5 seconds, 10 seconds, 30 seconds, 1 minute, 2 minutes, 5 minutes, 10 minutes.

Mobile detection, video loss, blocks the view of the alarm, video cover:

Select the required set of options, you can set the region, deployment time and the way linked. Click "set the region," come into the interface, as the following chart:



Display area: select "display area", will be able to view the original settings of the region

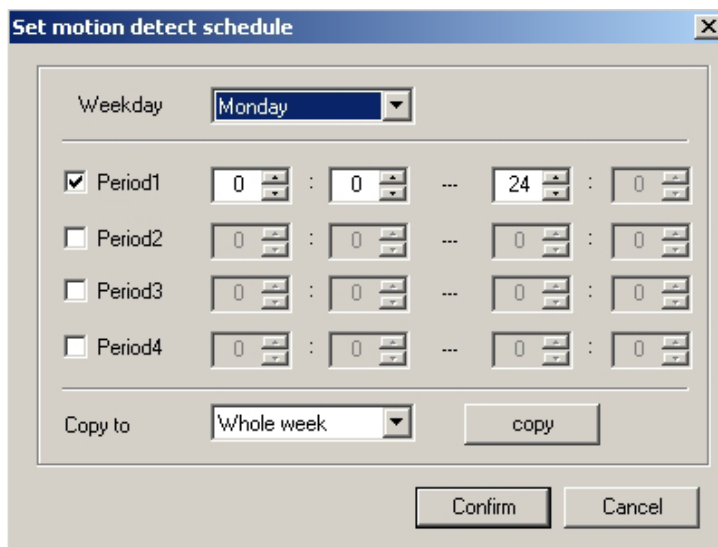
Regional settings: select "set up regional", holding down the **【Ctrl】** keyboard keys, use the mouse to set up regional location, at the same time hold down the left mouse button and drag the mouse, you can

draw a box in the region, after a good painting Release the left mouse button, they set up a regional. Mobile can be set up to detect a number of regions, video can be set up to cover 4 regions, can only block one area.

Choose Sensitivity: mobile detection can choose to 7, respectively, on behalf of the slider left to right: "closed" and 0-5 sensitivity of seven options, the lowest sensitivity of 0, 5 the highest. The police can choose to block 4, respectively, on behalf of the slider left to right: closed lower general and high

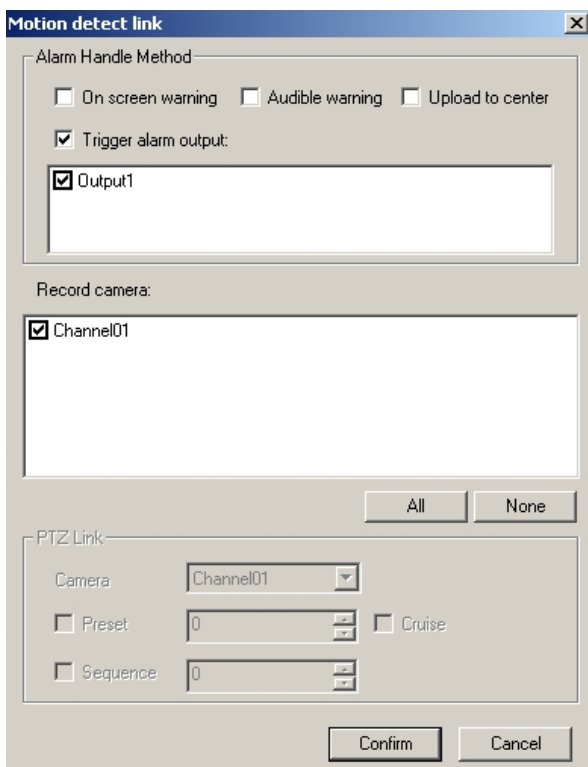
Click the "deployment time"; come into the set-up time interface, as the following chart:

Deployed in a specific period of time, an effective way to deal with the alarm.



The "Set motion detect schedule" dialog box is used to configure the detection schedule. It features a "Weekday" dropdown menu currently set to "Monday". Below this, there are four rows for "Period1" through "Period4". Each row includes a checkbox and a time range selector (HH:MM). Period1 is selected with a range of 00:00 to 24:00. Period2, Period3, and Period4 are not selected and have a range of 00:00 to 00:00. At the bottom, there is a "Copy to" dropdown menu set to "Whole week" and a "copy" button. "Confirm" and "Cancel" buttons are at the bottom right.

Click the "linkage"; come into the Linkage interface settings, as the following chart:



The "Motion detect link" dialog box is used to configure the linkage settings. It has three main sections: "Alarm Handle Method", "Record camera", and "PTZ Link". In the "Alarm Handle Method" section, "On screen warning", "Audible warning", and "Upload to center" are unchecked, while "Trigger alarm output" is checked. Under "Trigger alarm output", "Output1" is selected in a list box. The "Record camera" section has "Channel01" selected in a list box. Below this are "All" and "None" buttons. The "PTZ Link" section has "Channel01" selected in the "Camera" dropdown. "Preset" and "Sequence" are both set to 0, and "Cruise" is unchecked. "Confirm" and "Cancel" buttons are at the bottom right.

Select video channel trigger: the trigger-channel video channel can be a can also be a number.

Set up to deal with the alarm: the choice of channel output linkage approach, you can select one or more of the warning means.

Finished the setup, click "OK." Save the set up and come out the interface, not need to save click the "cancel", return to the control parameters setup interface

OSD attributes: can choose whether or not to display OSD, show the location, it shows the week, OSD attributes (state show that: do not blink opaque, not transparent and blinking, blinking and transparency, opaque blink, do not show), OSD type (Display format: XXXX - XX-XX (date), XX-XX-XXXXXX (on Japan-year), XXXX in XX on XX day, XX, XX on XXXX in, XX-XX-XXXX (in the sun), XX, XX on XXXX).

Set channel name attribute: You can choose whether or not to display name of the channel as well as the location of the show.

Superposition characters: can choose characters superimposed images, stacking up to 4 lines of 22 characters per line (44 characters).

Finished setting Parameter, click "OK." If the parameter can take effect only by restart click the "Restart" button.

(Note: regular video, mobile detection, video loss, block, block the view of the alarm settings in the name of the channel information and can not be copied to other channels)

4.3.3 Serial parameters set up

Choose the "serial parameters" in the remote set up, as the following chart
The interface can set up the RS232 and RS485's relevant parameters

The screenshot shows the 'Remote Configuration' window with the following sections:

Server configuration | Channel configuration | COM configuration | Alarm configuration | Use

RS232 Configuration Information

Baud rate: 115.2k | Data bits: 8 | Stop bits: 1
 Parity: None | Flow control: None | Work mode: Console

PPP: [dropdown] | Callback: [dropdown]
 User name: [text field]
 Remote IP: 0 . 0 . 0 . 0 | Verify: [text field]
 Local IP: 0 . 0 . 0 . 0 | Subnet mask: 0 . 0 . 0 . 0
 Phone: [text field] | ☐ Data encryption | ☐ Callback

RS485 Configuration Information

Channel No.: Channel01
 Baud rate: 9600 | Data bits: 8 | Stop bits: 1
 Parity: None | Flow control: None
 PTZ type: Pelco-P | PTZ address: 0

Copy To: All channels | [copy button]

[Restore] [Reboot] [Save] [Exit]

Finished the setup of Parameter, click "OK." If the parameters can take effect only by restart, please restart.

4.3.4 Alarm parameters setup

Choose the "alarm parameters" in the following chart; we can set up the alarm quantity parameters and abnormal parameters in the interface.

Remote Configuration

Server configuration | Channel configuration | COM configuration | Alarm configuration | Use

Alarm input

Alarm input: Alarm input 01

Alarm name:

Alarm type: Normal open

☒ Method:

Copy To: All alarm input

Alarm output

Alarm output: Alarm output 01

Alarm output time: 5 seconds

Copy To: All alarm output

Exception Configuration

Exception type: Hard disk full

☐ Audible warning ☐ Upload to center

☐ Trigger alarm output:

☐ Output1

Alarm input process:

Choose the process", the police enter click "deployment time"; come into the report to the police deployed in time as the following chart:

Set alarm input schedule

Weekday: Monday

☒ Period1: 0 : 0 ... 9 : 0

☐ Period2: 0 : 0 ... 0 : 0

☐ Period3: 0 : 0 ... 0 : 0

☐ Period4: 0 : 0 ... 0 : 0

Copy to: Whole week

After setup the deployment time, click "OK" button to save and come out the configuration interface. If not need save the set up click the "Cancel" button and return to the police parameter configuration interface

Click the alarm input "linkage", come into the alarm input "linkage" interface, as the following chart:

Alarm input link

Alarm Handle Method

☐ On screen warning ☐ Audible warning ☐ Upload to center

☒ Trigger alarm output:

☒ Output1

Record camera:

☐ Channel01

All None

PTZ Link

Camera Channel01

☒ Preset 1 ☐ Cruise

☐ Sequence 1

Confirm Cancel

After set up the deployment time, click "OK" button to save and come out the interface. If not need to save ,click the "cancel" and return to the alarm parameters interface.

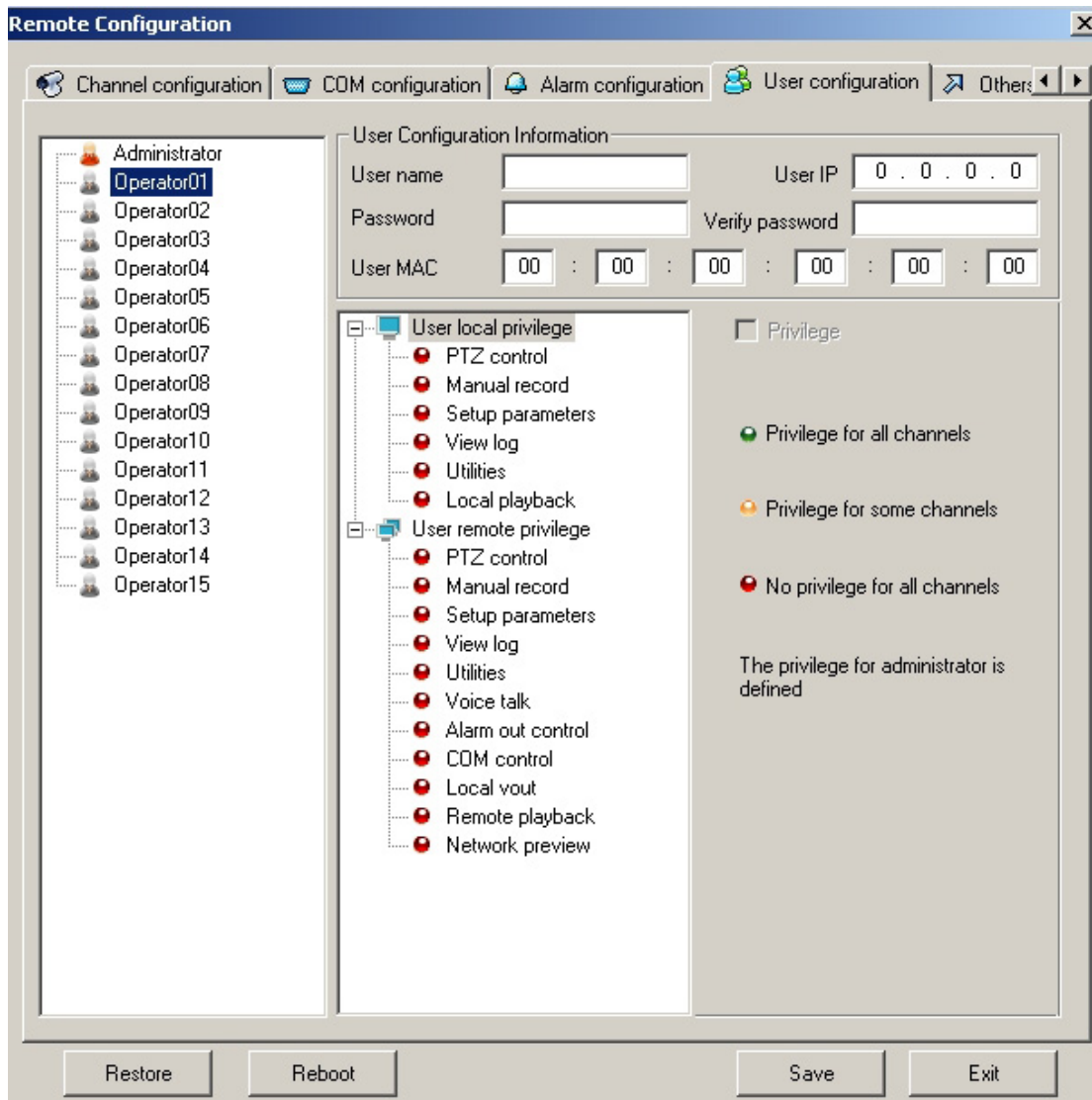
Unusual Information setup:

Unusual configuration information including full hard disk, hard disk errors, broken lines, IP address conflicts, illegal access, input / output system does not match the video, and so on, also can choose the alarming process method.

Finished the setup of Parameter, click "OK." If the parameters can take effect only by restart ,please restart .

4.3.5 User setup

Choose the "user purview" in the remote setup, as the following chart::



We can manage the server in the interface. Including user names, passwords, we can add and the abolition of authority by check on the "authorization".

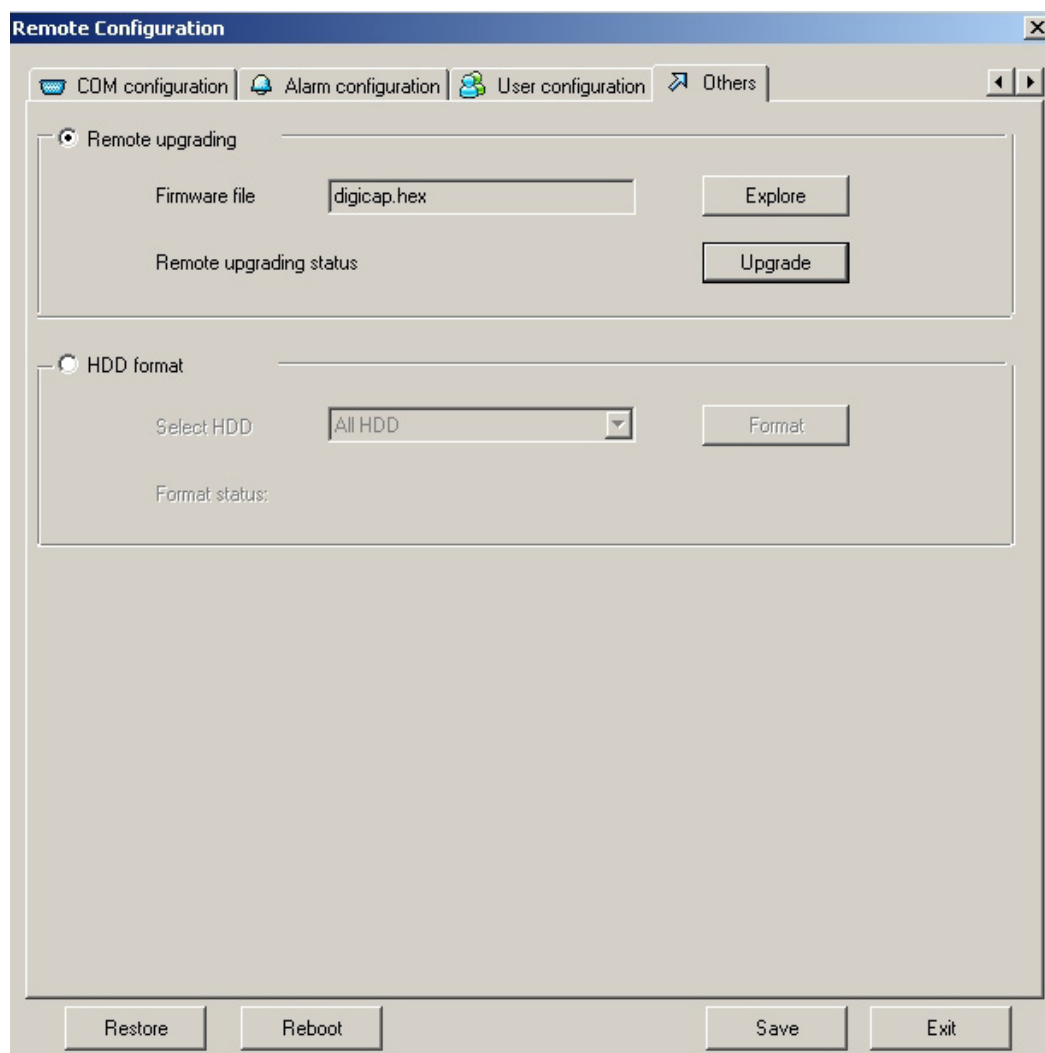
When users select the user's permission to view. If the user already exists, right-click when the user pop-up menu, select "modify" the user to manage. Select the "delete" to delete the user. Super users can not be deleted. If the user does not exist, choose "modify" the user add the user, select "Cancel" and set out the setup.

Finished the setup of Parameter, click "OK." If the parameters can take effect only by restart, please restart.

Note: If you set up IP address binding, only the binding IP addressee's PC can access the equipment, not recommend to use.

4.3.6 Other functions

Choose the "other functions" in the remote setup. As the following chart:



You can remote upgrade the server and format the hard disk in the interface.

Select the "remote upgrade", click "Browse", choose the upgraded files. Click the "upgrade" to start upgrading. Finished the upgrade, suggesting "success to upgrade the server and please restart it."

Select "hard disk format", choose the hard disk need to operate(or a full hard drive), click the "format", suggestion" formatting the hard disk " finished the format, suggesting that " success formatting the hard disk "

Notice :finished the remote upgrade and format the hard disk ,need to restart the device ,during the course ,can't be do other operation.

5. Specifications

Models	IDRS-IPCAM1-Q	IDRS-IPCAM1-H	IDRS-IPCAM1-D
Image Sensor	1/3" SONY Super HAD CCD		
Horizontal Resolution	540TVL	480TVL	420TVL
Efficiency Resolution	PAL: 704×576, NTSC:704×480(H×V)		PAL:500×582, NTSC:510×492(H×V)
Electric Shutter	PAL=1/50 -1/100,000 s, NTSC=1/60 -1/100,000 s		
Min. Illumination	0 Lux		
S/N Ratio	> 48dB(AGC off)		
Gamma	0.45		
Lens Connector	CS		
Video Output	1Channel, BNC(1.0Vp-p, 75Ω)		
Back Compensation	on		
Video Compression	H.264		
Storage Medium	SD Card		
Compression Resolution	QCIF/CIF/2CIF/DCIF/4CIF		
Video Frame Rate	PAL: 1/16—25f/s, per channel NTSC: 1/16—30f/s per channel		
Stream Type	Video & audio mixed stream or video stream		
Video Bit Rate	32Kbps~2Mbps (Self-define)		
Audio Output	1channel, RCA jack		
Audio Input	1channel , RCA jack(2Vp-p, 1kΩ)		
Communication Interface	1 RJ45 10M/100M UTP network interface, 1 RJ45 RS-232 interface		
Alarm Input	1		
Alarm Output	1		
Power Supply	DC 12V		
Operating Temperature	-10°C-- +55°C		
Operating Humidity	10%--90%		
Dimension	133×61×62mm(L×W×H)		
Weight	0.42kg (N.W), 0.49kg(G.W)		

Models	IDRS-IPCAM2-Q	IDRS-IPCAM2-H	IDRS-IPCAM2-D
Image Sensor	1/3"SONY Super HAD CCD		
Horizontal Resolution	540TVL	480TVL	420TVL
Pixel	PAL:752×582, NTSC:768×494(H×V)		PAL: 500×582 NTSC: 510×492(H×V)
Electrical Shutter	PAL=1/50 -1/100,000 s, NTSC=1/60 -1/100,000 s		
Min. Illumination	0 Lux		
S/N Ratio	> 48dB(AGC off)		
Gamma	0.45		
Lens	12mm(6mm, 8mm,)		
Back Compensation	on		
IR LED	850nm		
IR Distance	30m		
IR Status	Light below 10 Lux, CDS automatically open		
Video Compression	H.264		
Storage Medium	SD Card		
Compression Resolution	QCIF/CIF/2CIF/DCIF/4CIF		
Video Output	1channel,BNC(1.0Vp-p,75Ω)		
Video Frame Rate	PAL: 1/16—25f/s per channel ,NTSC: 1/16—30f/s per channel		
Stream Type	Video & audio mixed stream or video stream		
Video Bit Rate	32Kbps~2Mbps (Self-define)		
Audio Output	1channel, RCA		
Audio Input	1channel ,RCA(2Vp-p,1kΩ)		
Communication Interface	1 RJ45 10M/100M UTP network interface		
Alarm Input	1channel		
Alarm Output	1channel		
Power Supply	DC 12V		
Operating Temperature	-10°C--+55°C		
Relative Humidity	10%--90%		
Dimension	200×83 ×83mm(L × W × H)		
Weight	0.9kg (N.W)		

Model	IDRS-IPCAM3-Q	IDRS-IPCAM3-H	IDRS-IPCAM3-D
Image Sensor	1/3"SONY SUPERHAD CCD		
Resolution	540TVL	480TVL	420TVL
Pixel	PAL:752×582, NTSC:768×494(H×V)		PAL: 500×582 NTSC: 510×492(H×V)
Electric Shutter	PAL=1/50 -1/100,000 s, NTSC=1/60 -1/100,000 s		
Min. Illumination	0 Lux		
S/N Ratio	> 48dB(AGC off)		
Gamma	0.45		
Lens	12mm(4mm, 6mm, 8mm, 16mm)		
Back Compensation	on		
IR LED	850nm		
IR Distance	30m		
IR Status	Light below 10 Lux, CDS automatically open		
Video Compression	H.264		
Storage Medium	SD Card		
Compression Resolution	QCIF/CIF/2CIF/DCIF/4CIF		
Video Frame Rate	PAL: 1/16—25f/s, NTSC: 1/16—30f/s,		
Stream Type	Video & audio mixed stream or video stream		
Video Bit Rate	32Kbps~2Mbps (Self-define)		
Communication Interface	1 RJ45 10M/100M UTP network interface		
Alarm Input	1channel		
Alarm Output	1channel		
Power Supply	DC 12V		
Operating Temperature	-10°C-- +55°C		
Relative Humidity	10%--90%		
Dimension	226×83 ×80mm(L×W×H)		
Weight	1.2kg		
Protection Grade	IP66		

Models	IDRS-IPDOME3-H	IDRS-IPDOME3-X	IDRS-IPDOME3-W
Camera			
Image Sensor	1/4"SONY CCD Image Sensor		
Effective Pixels	PAL:752×582 NTSC:768 x 494(H x v)		
Horizontal Resolution	480TV lines	480TV lines	540TV lines
Day/Nigh Function	Manual/ Auto	Manual/ Auto (IR Cut Removable Filter)	Manual/ Auto (IR Cut Removable Filter)
Min. Illumination	0.01Lux	0.002Lux	Color:0.4 Lux B/W:0.001 Lux Digital Slow Shutter: 0.006 Lux
Wide Dymanic Range	No	No	With
S/N Ratio	>50dB		
Electric Shutter	PAL=1/50 -1/100,000 s, NTSC=1/60 -1/100,000 s		
Lens	f=4-88mm	f =4.1～73.8mm	f=3.3～99mm
Zoom	Optical zoom 22X, Digital zoom 10X	Optical zoom 18X, Digital zoom 12X	Optical zoom 30X, Digital zoom 8X
Speed Dome			
Pan Travel	360° continuous		
Tilt Travel	90°		
Pan/Tilt Speed	0.5°~300° per second		
Pan/Tilt Accuracy	± 0.5°		
Preset Positions	128		
Preset Tours	6		
Address Range	0~255		
Protocol	Pelco-D, Pelco-P etc		
Baud Rate	1200bps, 2400bps,4800bps,9600bps		
Long-focus Speed-limited	With		
Built-in Memory To Store The Setting	With		
Home Position	The first preset position		
IP Module			
Video Compression	H.264		
Storage Medium	SD card		
Compression Resolution	QCIF/CIF/2CIF/DCIF/4CIF Compression		
Video Output	1 channel, BNC (1.0Vp-p, 75Ω)		
Video Frame Rate	PAL : 1/16--25 fps, NTSC : 1/16--30 fps, adjustable		
Stream Type	Video & audio mixed stream or video stream		
Video Frame Rate	32Kbps~2Mbps (Self-define)		
Communication Interface	1 RJ45 10M / 100M UTP network interface		

General	
Operating Temperature	-30~65°C
Relative Humidity	0 to 95% RH (Non condensing)
Power Supply	AC24V 60Hz/50Hz
Power Consumption	70W
Protection Grade	IP66
Weight	3.6kg
Dimension	200x285mm

Model	IDRS401D
Video Compression	H.264
Compression Resolution	D1,DCIF,2CIF,CIF,QCIF
Video Input	1
Video Signal	BNC (Electrical Level: 1.0Vp-p, Resistance: 75Ω) NTSC/ PAL System Auto Recognition
Frame Rate	PAL: 1/16fps-25 fps per channel NTSC: 1/16fps-30fps per channel
Stream Type	Video and audio Mixed stream or Video Stream
Video Bit Rate	32Kbps~2Mbps (Self-define)
Audio Input	1
Audio Input Signal	BNC (Linear Electrical Level , Resistance:1000Ω), SNR > 83DB
Audio Output	1 Channel, BNC (Linear Electrical Level)
Audio Compression	Ogg Vorbis
Audio Bit Rate	16Kbps
Voice Audio Input (MIC)	1 Input , RCA jack
Communication Interface	1 RJ45 10M/100M Self-adaptable Ethernet Interface, 1 RS232 interface, 1 RS 485 interface for PTZ
Alarm Input	4
Alarm Output	2
Power Supply	DC 12V
Power Consumption	Less than 4.5W
Operating Temperature	-10°C-- + 50°C
Relative Humidity	10%-90%
Dimensions(L×W×H)	100×68×41mm
Weight	0.3 Kg

Model	IDRS401A	IDRS402A	IDRS404A
Video Compression	H.264		
Compression Resolution	CIF, QCIF		
Video Input	1	2	4
Video Signal	BNC (Electrical Level: 1.0Vp-p, Resistance: 75Ω) NTSC/ PAL System Auto Recognition		
Frame Rate	PAL: 1/16fps-25 fps per channel NTSC: 1/16fps-30fps per channel		
Stream Type	Video and audio Mixed stream or Video Stream		
Video Bit Rate	32Kbps~2Mbps (Self-define)		
Audio Input	1	2	4
Audio Input Signal	BNC (Linear Electrical Level , Resistance:1000Ω), SNR > 83DB		
Audio Output	1 Channel, BNC (Linear Electrical Level)		
Audio Compression	Ogg Vorbis		
Audio Bit Rate	16Kbps		
Voice Audio Input (MIC)	1 Input , RCA jack		
Communication Interface	1 RJ45 10M/100M Self-adaptable Ethernet Interface, 1 RS232 interface, 1 RS 485 interface for PTZ		
Alarm Input	4		
Alarm Output	2		
Power Supply	DC 12V		
Power Consumption	Less than 4.5W		
Operating Temperature	-10°C-- + 50°C		
Relative Humidity	10%-90%		
Dimensions(L×W×H)	123×198×39mm		
Weight	1.5 Kg		